

A Management Planning Tool to Enhance Biodiversity Conservation and Ecosystem Resilience in the Sierra Nevada



R. Vandemark

Zach Peery, Bryce Bartl-Geller, Van R. Kane, Connor Wood, C. Alina Cansler, H. Anu Kramer, Kristin Brunk, Astrid Sanna, Brian Drye, Stefan Kahl, Sarah Sawyer, John Keane, Kate McGinn, Zuzana Burivalova, and Malcolm North



R. Wood

J. McGinnis

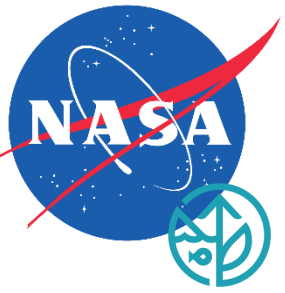
US Fish&Wildlife

D. Hofstadter

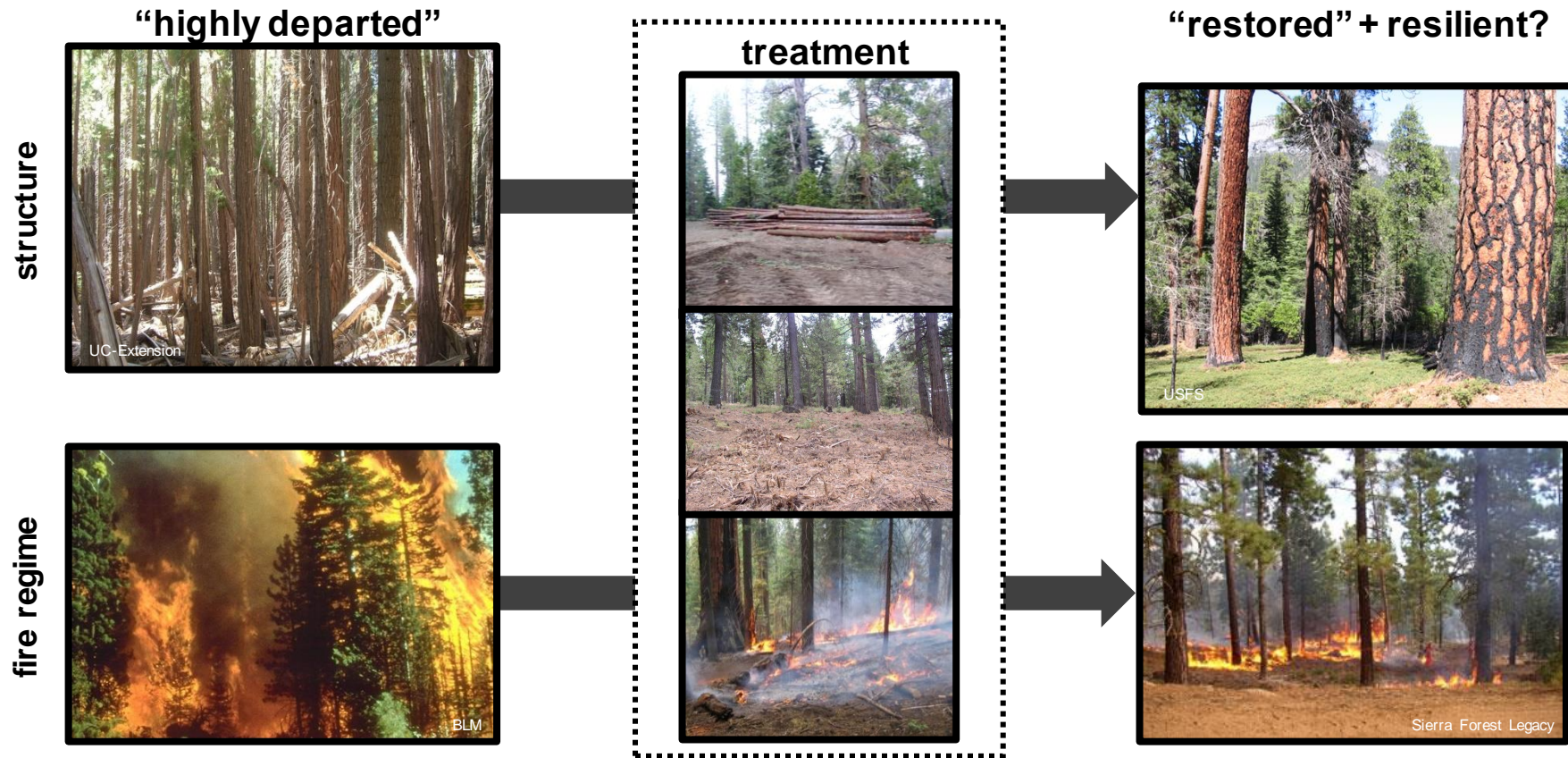
C. Brown

K. Yakola

T. Gettelman



Promoting Ecosystem Resilience

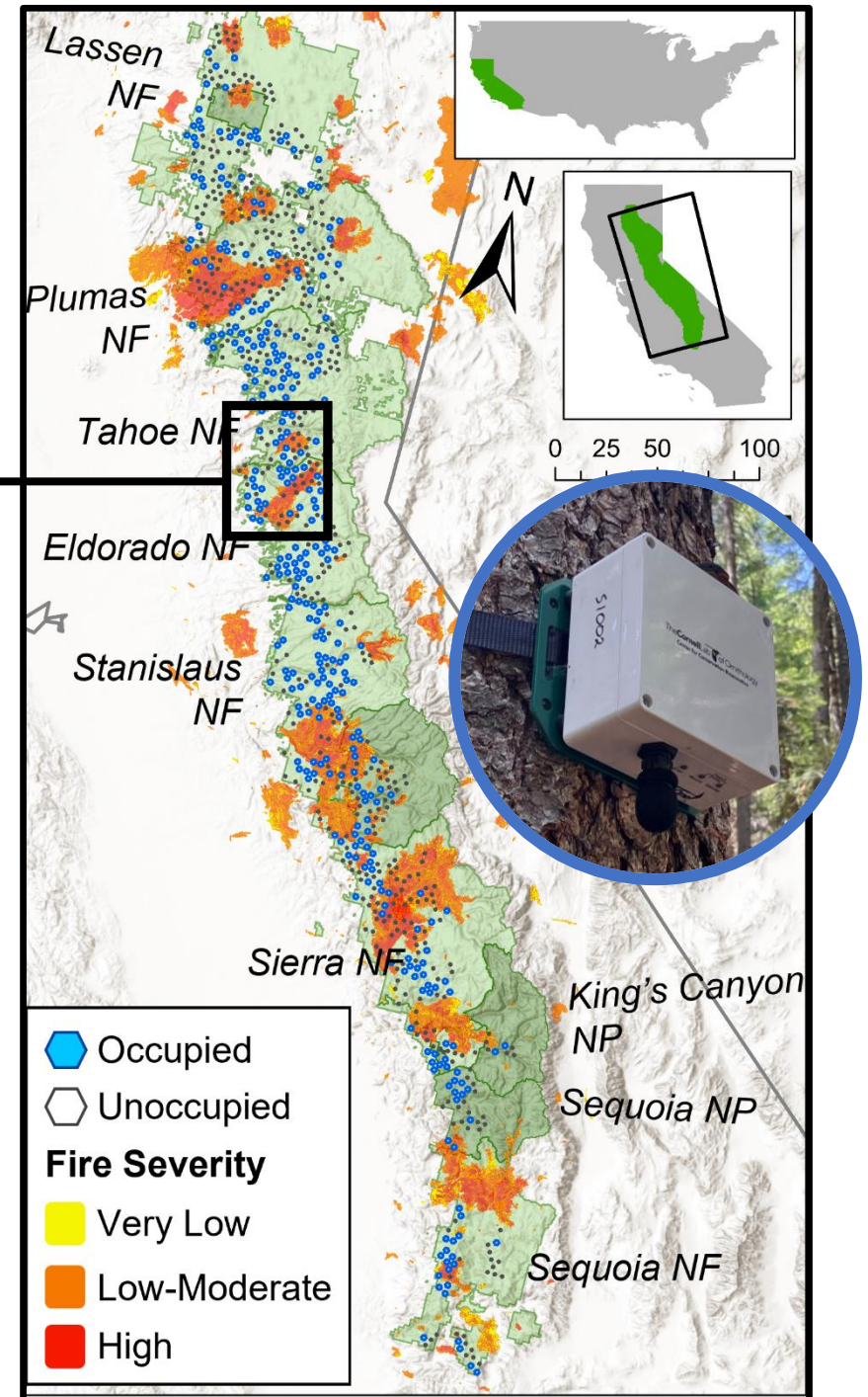
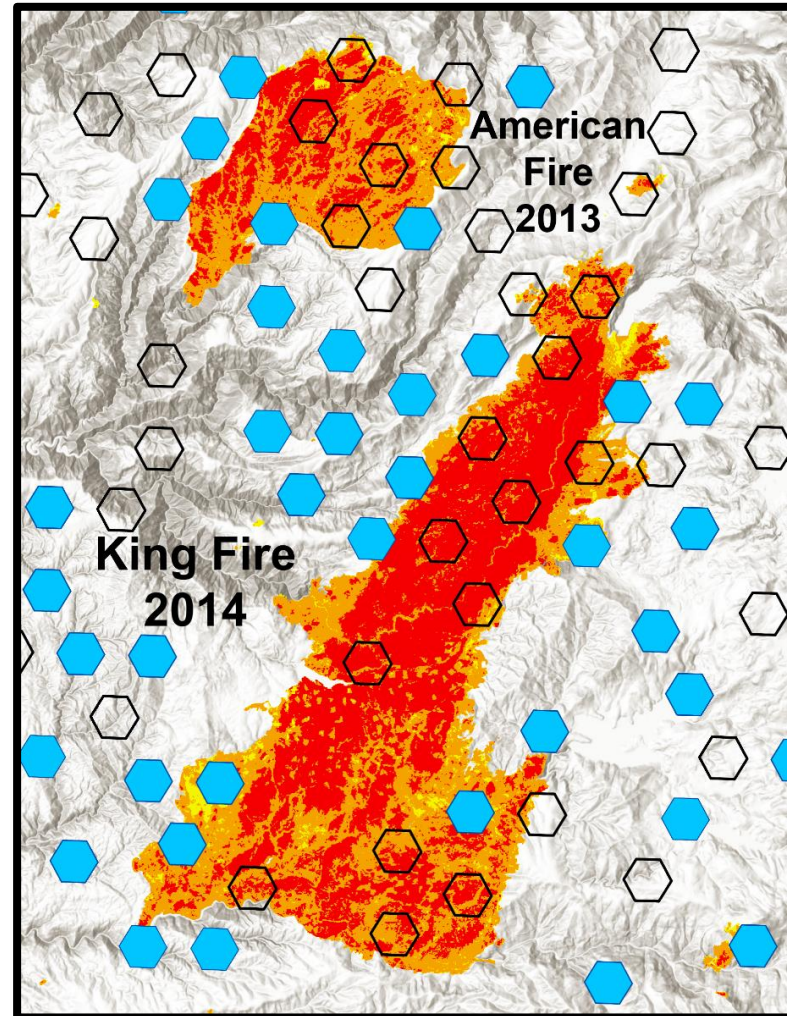


But, impacts to biodiversity?



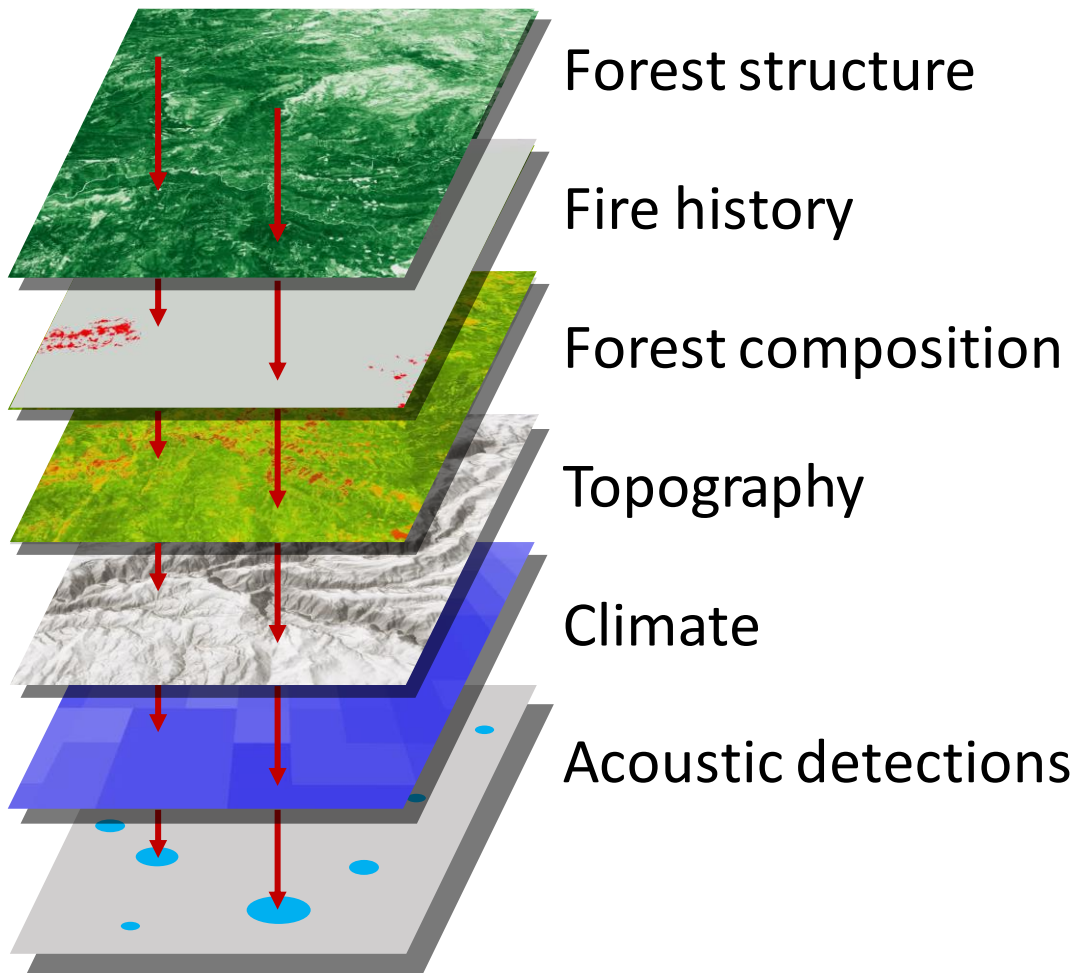
1. Passive Acoustic Surveys

- 1702 ARUs/year
- 5-wk deployments
- 1 m hrs data/year
- Scan with BirdNET
- ID'd 101 species

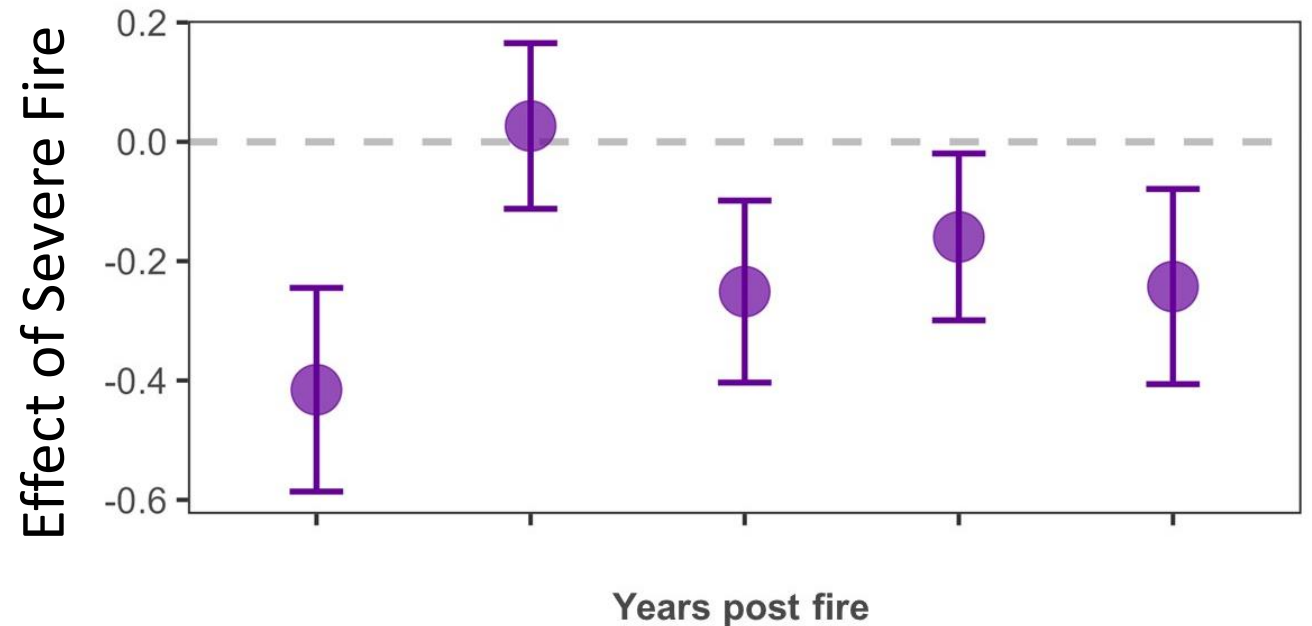


2. Habitat Suitability Models

- Identify ecologically- and management-relevant habitat metrics, e.g.,



- Build and fit occupancy models to acoustic detections and habitat metrics

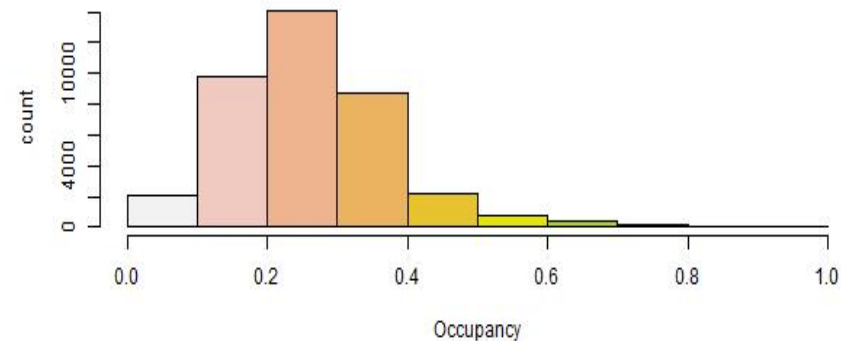
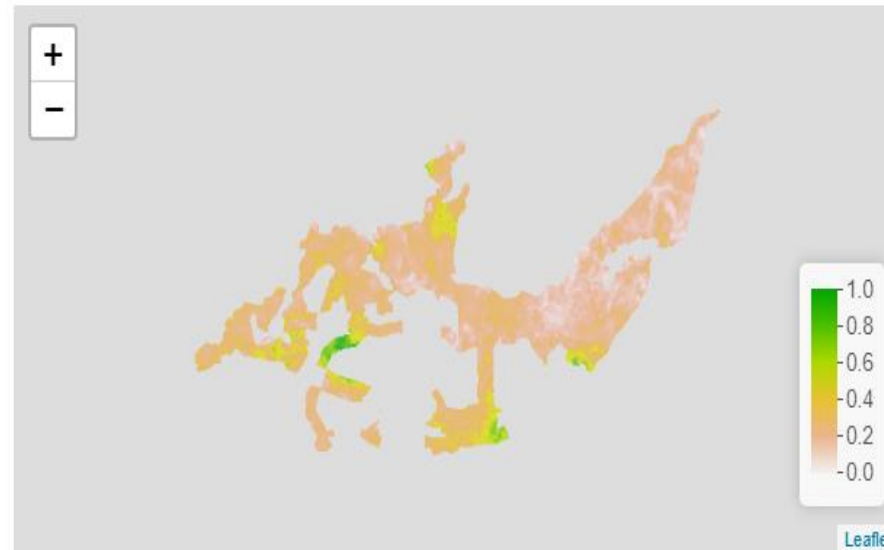


3. Biodiversity Conservation Tool

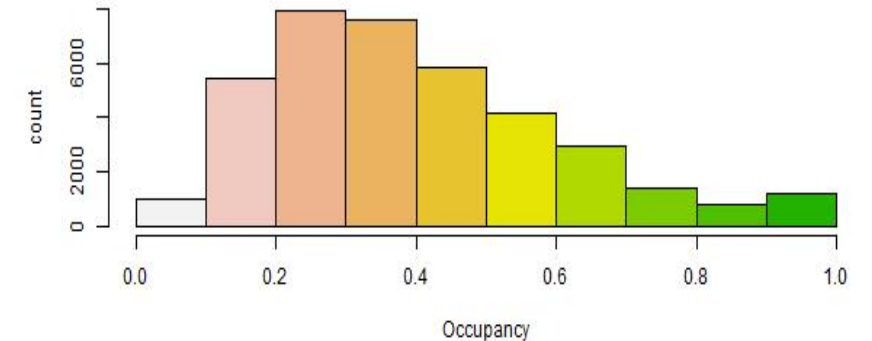
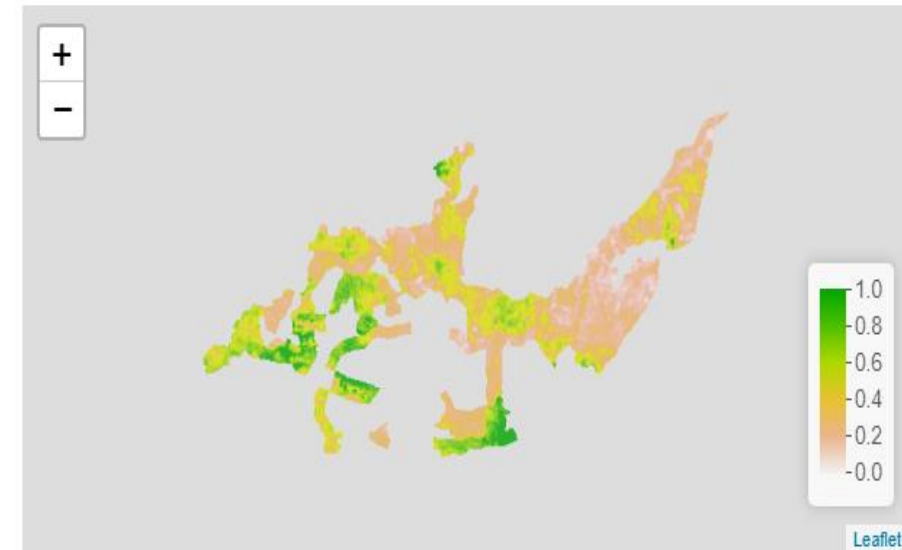
- Compare expected occupancy before vs after treatments
- Test alternative treatments
- Evaluate changes in forest resilience



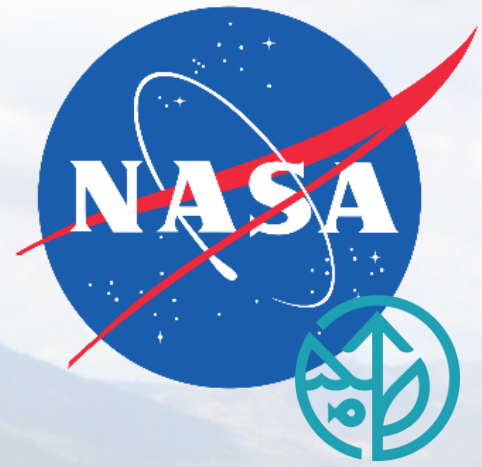
Pre-treatment



Post-treatment



Thanks!



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Project staff: Kevin Kelly, Sheila Whitmore, Dana Reid, Aimee Reiss, field technicians

Collaborators: Holger Klinck

Contact: Zach Peery
mpeery@wisc.edu